



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

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December 20, 2016

Mr. Kenneth Goulart
Taunton Municipal Lighting Plant
55 Weir Street
Taunton, MA 02780

RE: TAUNTON
Transmittal No.: X264034
Application No.: SE-15-001
Class: *SM-25*
FMF No.: 337531
**AMENDED AIR QUALITY PLAN
APPROVAL**

Dear Mr. Goulart:

The Massachusetts Department of Environmental Protection (“MassDEP”), Bureau of Air and Waste, has reviewed the supplemental Amended Non-Major Comprehensive Plan Application (Application), submitted on November 4, 2016, regarding Amended Air Quality Plan Approval No. SE-15-001 issued on May 20, 2015, and the underlying Non-Major Comprehensive Plan Application (NMCPA) approved on April 1, 2015. The MassDEP is hereby re-issuing the approval letter regarding your Application referenced above as an Amended Air Quality Plan Approval to reflect changes documented in the supplemental application materials. This Approval letter shall supersede, in its entirety, the approval letter issued on May 20, 2015.

The Application concerns the proposed construction and operation of four 2.495 MW electrical output, Ultra Low Sulfur Distillate (ULSD) fired Reciprocating Internal Combustion Engines at your Peak Shaving Project facility located at 500 West Water Street in Taunton, Massachusetts (“Facility”). The Application bears the seal and signature of Dale T. Raczynski, Massachusetts Registered Professional Engineer Number 36207.

This Application was submitted in accordance with 310 CMR 7.02 Plan Approval and Emission Limitations as contained in 310 CMR 7.00 “Air Pollution Control” regulations adopted by MassDEP pursuant to the authority granted by Massachusetts General Laws, Chapter 111, Section 142 A-N, Chapter 21C, Section 4 and 6, and Chapter 21E, Section 6. MassDEP’s review of your Application has been limited to air pollution control regulation compliance and does not relieve you of the obligation to comply with any other regulatory requirements.

MassDEP has determined that the Application is administratively and technically complete and that the Application is in conformance with the Air Pollution Control regulations and current air pollution control engineering practice, and hereby grants this **Plan Approval** for said Application, as submitted, subject to the conditions listed below.

Please review the entire Plan Approval, as it stipulates the conditions with which the Facility owner/operator (“Permittee”) must comply in order for the Facility to be operated in compliance with this Plan Approval.

1. DESCRIPTION OF FACILITY AND APPLICATION

The 500 West Water Street facility is situated on a 3.8 acre parcel along the Taunton River. The site is relatively flat with an elevation ranging from 8 to 16 feet above mean sea level (MSL). This site formally was used as an electric generation station from 1902 until 1978. The site housed 6 boilers and steam turbine generators in 35,000 square feet of building associated with the production, transmission, and distribution of electricity. The site formally stored over 1,000,000 gallons of fuel oil between above ground storage tanks (AST’s) and Underground storage tanks (UST’s) as well as approximately 10,000 tons of coal in the coal yard. The power station was closed in 1978 and was left in as “as is” condition until 2010.

An asbestos abatement and hazardous materials remediation and demolition project commenced in May of 2010 and was completed in December 2011. All buildings housing the boilers, piping, AST’s, and UST’s were demolished and contaminated soils were removed. The grave of the UST’s and underground piping was back filled with crushed brick from the former buildings and boilers. Approximately 7,000 square feet of building remain. All hazardous material abatement and remediation work was performed under the supervision of a Licensed Site Professional (LSP).

Current operation of the site consists of two active substations, as part of the TMLP electric transmission and distribution system, a server farm, and an internet head end to support the Internet Service Provider (ISP) part of the business. In support the server farm, the site includes an existing ERP certified 120 kW diesel emergency engine/generator.

The Permittee has proposed to install four (4) new 2.495 MW (electrical output), compression ignition, Reciprocating Internal Combustion Engines (RICE) and associated generator sets to reduce costs by load shaving during peak periods each month. The Permittee has indicated that all engines will operate concurrently, and the facility will operate up to a total of five hundred (500) hours of operation for any twelve month period. Included with each engine/genset package is an approximately 4,900 gallon, sub-base tank. The four sub-base tanks will contain only ULSD and will be the only fuel storage at the facility.

As Best Available Control Technology (BACT) for this project, the permittee will equip each Tier 4 compliant engine with a Miratech Model SP-M3-63-1520059, or equivalent, Selective Catalytic Reduction (SCR) system for additional control of Nitrogen Oxides (NO_x), and diesel particulate filter (DPF) for additional control of Particulate Matter (PM). The exhaust gases from the

engine, at an approximate temperature of 973 degrees Fahrenheit, will first pass through the Caterpillar CAT Clean Emissions Module (CEM). The CEM is part of the Tier 4 emissions package and consists of a diesel oxidation catalyst (DOC), SCR and ammonia oxidation catalyst (AMO_x) in order of flow. The addition of the Miratech, or equivalent, system is expected to result in an additional NO_x reduction of 30% and an additional PM₁₀ reduction of 21.7% from the Tier 4 emission package. The total of both systems will result in NO_x emissions of 3.62 pounds per hour, CO emissions of 1.01 pounds per hour, PM, PM₁₀, PM_{2.5} emissions of 0.20 pounds per hour and VOC emissions of 0.60 pounds per hour.

The SCR system will utilize a 32.5 percent, by weight, urea solution as a reactant resulting in a maximum ammonia (NH₃) slip of 10 parts per million, dry basis, at 15 percent oxygen (O₂). The reactant for each engine/generator set will be stored in a 550 gallon capacity, double walled, heat traced and insulated, storage tank.

Each emission control system will include a process monitoring system to ensure proper operation. Viewable CAT CEM performance parameters include: SCR Air Assist Pressure, Catalyst Temperature, SCR Exhaust Gas Differential Pressure, SCR System Status, Diesel Exhaust Fluid (DEF, also known as Urea) Day Tank Level and Dosing Temperature, and Total DEF Used. Parameters to be monitored in the Miratech SCR include SCR catalyst inlet and outlet temperatures, system differential pressure, urea dosing rate, compressed air pressure, Nitrogen Oxide sensor value versus target value, and Carbon Monoxide sensor value versus target value. Each of the proposed engine/generator sets will be housed within an ACS Manufacturing 50 dB(A) at 50 feet sound-attenuating weatherproof enclosures. The associated tail end emissions control equipment, CAT CEM/Miratech, will provide the required exhaust silencing and will exhaust through individual stacks approximately 40 feet above ground level. The Permittee has submitted a BWP AQ Sound and associated sound level assessment report. Sound level modeling results show a maximum of 5 dB(A) increase over background at the requested modeling locations.

Applicable Regulatory Requirements

The Permittee has submitted Air Dispersion Modeling demonstrating that permitted emissions from the proposed construction will not exceed National Ambient Air Quality Standards (NAAQS) and are less than the applicable thresholds for major New Source Review including Prevention of Significant Deterioration (PSD) review under 40 CFR Part 51, 40 CFR 52.21, and Emission Offsets and Nonattainment Review under 310 CMR 7.00 Appendix A.

The Permittee shall comply with the Standards of Performance for New Stationary Sources as found at 40 CFR Part 60, Subpart IIII and the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Engines, 40 CFR Part 63, Subpart ZZZZ.

2. EMISSION UNIT IDENTIFICATION

Each Emission Unit (“EU”) identified in Table 1 is subject to and regulated by this Plan Approval:

Table 1			
EU	Description	Design Capacity	Pollution Control Device (PCD)
EU1, EU2, EU3, EU4	ULSD-fired Reciprocating Internal Combustion Engine and Generator set Manufacturer: Caterpillar 3516C Tier 4	23.8 MMBtu/hr heat input 2.705 MW mechanical output (engine) 2.495 MW electrical output (generator)	Caterpillar Tier 4 Clean Emissions Module (Selective Catalytic Reduction, Diesel Oxidation Catalyst, Ammonia Oxidation Catalyst); Miratech Model SP-M3-63-1520059, or equivalent (Selective Catalytic Reduction, Diesel Particulate Filter); Sound Attenuating Enclosure

Table 1 Key:

EU = Emission Unit Number
MMBtu/hr = million British thermal units per hour
MW = Megawatt
PCD = Pollution Control Device
ULSD = Ultra Low Sulfur Distillate

3. APPLICABLE REQUIREMENTS

A. OPERATIONAL, PRODUCTION and EMISSION LIMITS

The Permittee is subject to, and shall not exceed the Operational, Production, and Emission Limits as contained in Table 2:

Table 2					
EU	Operational / Production Limit	Air Contaminant	Emission Limit		
			lbs/MWh (Note 2) (Note 3)	lbs/hr (Note 3)	TPY
EU1-EU4 (each)	1. ULSD ^(Note 1) shall be the only fuel fired. 2. < 500 hours run time per consecutive 12-month period. 3. < 86,500 gallons ULSD per consecutive 12-month period.	NO _x	1.34	3.62	1.27 ^(Note 4)
		CO	0.37	1.01	0.25
		NH ₃	0.13	0.34	0.09
		CO ₂	1,430	3,866	967
		VOC	0.22	0.60	0.15
		PM/PM ₁₀ /PM _{2.5}	0.074	0.20	0.05

Table 2					
EU	Operational / Production Limit	Air Contaminant	Emission Limit		
			lbs/MWh (Note 2) (Note 3)	lbs/hr (Note 3)	TPY
EU1-EU4 (each)	4. As specified at 40 CFR Part 60.4211(c), each engine must be installed and configured according to the manufacturer's emission-related specifications.	SO ₂	0.015	0.04	0.01
		HAP	0.014	0.04	0.01
		Smoke and Opacity	Not to exceed 10% opacity during normal operation. Comply with 310 CMR 7.06(1) (a) and (b) during start-up and shut down.		
EU1-EU4 (combined)	5. The Permittee shall limit operation of the facility to ≤ 500 hours per consecutive 12-month period. ^(Note 5)	NO _x	N/A	N/A	5.08 ^(Note 4)
		CO			1.01
		NH ₃			0.37
		CO ₂			3,866
		VOC			0.60
		PM/PM ₁₀ /PM _{2.5}			0.20
		SO ₂			0.04
		HAP			0.04

Table 2 Notes:

Note 1: ULSD shall have a sulfur content that does not exceed 0.0015% by weight.

Note 2: lbs/MWh emission limit shall reflect the power output (mechanical) of the engine.

Note 3: lbs/MWh and lbs/hr emission limits shall not apply during first 20 minutes upon startup.

Note 4: TPY NO_x emission limits include an allowance for up to 35 cold startups for each engine per consecutive twelve month period. This is not a limit on the number of actual startups. TMLP shall track actual total NO_x emissions, including all startup time against the limit 5.08 tons per consecutive 12 month period.

Note 5: Hours of operation shall be tracked to the nearest minute based on actual operating time. The Facility is limited to 30,000 minutes of operation per consecutive 12-month period. Operation of any unit shall be counted as Facility operating time.

Table 2 Key:

EU = Emission Unit

CFR = Code of Federal Regulations

CMR = Code of Massachusetts Regulations

CO = Carbon Monoxide

CO₂ = Carbon Dioxide

HAP = Hazardous Air Pollutant(s), as listed in the 1990 Clean Air Act (CAA) Amendments, Section 112(b).

lbs/hr = pounds per hour

lbs/MWh = pounds per Megawatt-hour

NH₃ = Ammonia

NO_x = Nitrogen Oxides

PM = Total Particulate Matter

PM₁₀ = Particulate Matter less than or equal to 10 microns in diameter

PM_{2.5} = Particulate Matter less than or equal to 2.5 microns in diameter

SO₂ = Sulfur Dioxide

VOC = Volatile Organic Compound(s)

TPY = tons per consecutive 12-month period

ULSD = Ultra Low Sulfur Distillate

≤ = less than or equal to

% = percent

B. COMPLIANCE DEMONSTRATION

The Permittee is subject to, and shall comply with, the monitoring, testing, record keeping, and reporting requirements as contained in Tables 3, 4, and 5:

Table 3	
EU	Monitoring and Testing Requirements
EU1-EU4	1. The Permittee shall install and operate, on each engine, a non-resettable hour meter to monitor hours run for each month and each consecutive twelve-month period.
	2. The Permittee shall monitor fuel use in each engine for each month and each consecutive twelve-month period.
	3. The Permittee shall monitor the power output in megawatts (electrical and corresponding mechanical) of each emission unit for each run hour.
	4. The Permittee shall monitor manufacturer's recommended emission control system operational parameters, to include fuel flow, CAT CEM SCR Air Assist Pressure, Catalyst Temperature, SCR Exhaust Gas Differential Pressure, SCR System Status, Diesel Exhaust Fluid (DEF, also known as Urea) Day Tank Level and Dosing Temperature, and Total DEF Used. Parameters to be monitored in the Miratech SCR include SCR catalyst inlet and outlet temperatures, system differential pressure, DEF dosing rate, compressed air pressure, Nitrogen Oxide sensor value versus target value, and Carbon Monoxide sensor value versus target value. These are all as identified in the application to provide a reasonable assurance of proper operation of the exhaust control system and compliance with the emission limits identified in Table 2.
	5. The Permittee shall monitor the stack NO _x and CO concentrations with a Testo 350 (or equivalent) portable hand held analyzer on a quarterly basis to verify emission control system data
	6. The Permittee shall ensure that each engine stack is constructed so as to accommodate the emissions testing requirements as noted above and as stipulated in 40 CFR Part 60, Appendix A. The stack sampling ports shall comply with 40 CFR Part 60. The sampling ports should be 90 degrees apart from each other.
	7. The Permittee shall perform inspections of the subject engines and control equipment as recommended by the manufacturer.
	8. The Permittee shall monitor fuel oil purchases such that only fuel oil containing no greater than 0.0015 percent by weight sulfur is purchased for use in each unit.
	9. The Permittee shall monitor sulfur content of each new shipment of fuel oil received. Sulfur content of the fuel can be demonstrated through fuel analysis. The analysis of sulfur content of the fuel shall be in accordance with the applicable American Society for Testing Materials (ASTM) test methods or any other method approved by the MassDEP and USEPA. Fuel sulfur information may be provided by fuel suppliers.

Table 3	
EU	Monitoring and Testing Requirements
EU1-EU4	10. The Permittee shall test the SCR catalyst periodically, as specified by the manufacturer's recommendation, in order to ensure proper operation of the SCR control system.
	11. The Permittee shall conduct compliance emissions testing for NO _x , CO, NH ₃ , and PM/PM ₁₀ /PM _{2.5} on EU1-EU4 within 180 days of the commencement of continuous operation of said unit in order to verify compliance with emission limits contained in Table 2. All compliance testing shall be conducted in accordance with the test methods and procedures set forth in 40 CFR 60, Appendix A. All compliance testing shall be witnessed by MassDEP personnel at a mutually agreeable date and time. The Permittee shall submit a test protocol for the required emission test for review and approval to MassDEP SERO BAW (attn: Permit Chief) at least 30 days prior to the anticipated date of testing. The Permittee shall submit the emission test results report to MassDEP SERO BAW (attn: Permit Chief) within 45 days of completion of the compliance stack testing.
Facility-wide	12. The Permittee shall monitor facility operational hours (i.e. date, EU operated, time run) to demonstrate compliance with the overall facility operational restriction of 500 hours.
	13. The Permittee shall monitor all operations to ensure sufficient information is available to comply with 310 CMR 7.12 Source Registration
	14. The facility shall be constructed to accommodate the emission testing requirements contained in 40 CFR Part 60, Appendix A.
	15. If and when MassDEP requires it, the Permittee shall conduct emission testing in accordance with USEPA Reference Test Methods and Regulation 310 CMR 7.13
	16. At least 30 days prior to emission testing, the Permittee shall submit to MassDEP for approval a stack emission pretest protocol.
	17. Within 45 days after emission testing, the Permittee shall submit to MassDEP a final stack emission test results report.

Table 3 Key:

BAW = Bureau of Air and Waste
CFR = Code of Federal Regulations
CMR = Code of Massachusetts Regulations
CO = Carbon Monoxide
EU = Emission Unit
NH₃ = Ammonia
NO_x = Nitrogen Oxides
PM = Total Particulate Matter
PM₁₀ = Particulate Matter less than or equal to 10 microns in diameter

PM_{2.5} = Particulate Matter less than or equal to 2.5 microns in diameter
SCR = Selective Catalytic Reduction
SERO = Southeast Regional Office
USEPA = United States Environmental Protection Agency
VOC = Volatile Organic Compound(s)
≤ = less than or equal to
% = percent

Table 4	
EU	Record Keeping Requirements
EU1-EU4	1. The Permittee shall, for each engine, maintain a record to document monthly and consecutive twelve-month period hours of operation.
	2. The Permittee shall, for each engine, maintain a record of the fuel consumed for each month and consecutive twelve-month period.

Table 4	
EU	Record Keeping Requirements
EU1- EU4	3. The Permittee shall maintain oil analysis results used to demonstrate compliance with fuel oil sulfur content requirements.
	4. The Permittee shall record on an hourly basis, using an electronic data logger, fuel flow, CAT CEM SCR Air Assist Pressure, Catalyst Temperature, SCR Exhaust Gas Differential Pressure, SCR System Status, Diesel Exhaust Fluid (DEF, also known as Urea) Day Tank Level and Dosing Temperature, and Total DEF Used. Parameters to be recorded for the Miratech SCR include SCR catalyst inlet and outlet temperatures, system differential pressure, DEF dosing rate, compressed air pressure, Nitrogen Oxide sensor value versus target value, and Carbon Monoxide sensor value versus target value and any other parameters monitored to ensure that the subject equipment operates within the ranges recommended by the manufacturer to achieve compliance with the limits in Table 2.
Facility- wide	5. The Permittee shall maintain adequate records at the TMLP Cleary Flood site to demonstrate compliance status with all operational, production, and emission limits contained in Table 2 above. Records shall also include the actual emissions of air contaminant(s) emitted for each calendar month and for each consecutive twelve-month period (current month plus prior eleven months). These records shall be compiled no later than the 15 th day following each month. An electronic version of the MassDEP approved record keeping form, in Microsoft Excel format, can be downloaded at http://www.mass.gov/eea/agencies/massdep/air/approvals/limited-emissions-record-keeping-and-reporting.html#WorkbookforReportingOn-SiteRecordKeeping .
	6. The Permittee shall maintain records of monitoring and testing as required by Table 3.
	7. The Permittee shall maintain a copy of this Plan Approval, underlying Application and the most up-to-date SOMP for the EU(s) and PCD(s) approved herein on-site.
	8. The Permittee shall maintain a record of routine maintenance activities performed on the approved EU(s), PCD(s) and monitoring equipment. The records shall include, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.
	9. The Permittee shall maintain a record of all malfunctions affecting air contaminant emission rates on the approved EU(s), PCD(s) and monitoring equipment. At a minimum, the records shall include: date and time the malfunction occurred; description of the malfunction; corrective actions taken; the date and time corrective actions were initiated and completed; and the date and time emission rates and monitoring equipment returned to compliant operation.
	10. The Permittee shall maintain records to ensure sufficient information is available to comply with 310 CMR 7.12 Source Registration.
	11. The Permittee shall maintain records required by this Plan Approval on-site for a minimum of five (5) years.
	12. The Permittee shall make records required by this Plan Approval available to MassDEP and USEPA personnel upon request.

Table 4 Key:
BAW = Bureau of Air and Waste
CMR = Code of Massachusetts Regulations
EU = Emission Unit

PCD = Pollution Control Device
USEPA = United States Environmental Protection Agency

Table 5	
EU	Reporting Requirements
EU1- EU4	1. The Permittee shall notify MassDEP SERO BAW (attn: AQ Permit Chief), in writing, within 14 days of commencement of operation of the approved EUs.
	2. The Permittee shall submit a test protocol, describing the test methods and procedures for emissions compliance testing for NO _x , CO, NH ₃ , and PM/PM ₁₀ /PM _{2.5} , sampling point locations, sampling equipment, sampling and analytical procedures, and the operating conditions for the required testing to this Office, attention Bureau of Air and Waste AQ Permit Chief, for review and MassDEP approval at least 30 days prior to the commencement of compliance testing at the Facility. Startup and shutdown testing procedures shall also be included in this protocol.
	3. The Permittee shall submit to MassDEP a final stack emission test results report, within 45 days after emission testing, for emission testing as defined in Table 3 Monitoring and Testing Requirements.
	4. The Permittee shall submit the Final Standard Operating and Maintenance Procedures (SOMP) for the approved EUs to MassDEP SERO BAW (attn: AQ Permit Chief) within 60 days of completion of their required initial compliance testing. Any subsequent changes to the SOMP shall be submitted to MassDEP SERO BAW (attn: AQ Permit Chief), within 15 days of said revision(s).
Facility- wide	5. The Permittee shall provide a copy to MassDEP of any record required to be maintained by this Plan Approval within 30 days from MassDEP's request.
	6. The Permittee shall submit to MassDEP all information required by this Plan Approval over the signature of a "Responsible Official" as defined in 310 CMR 7.00 and shall include the Certification statement as provided in 310 CMR 7.01(2)(c).
	7. The Permittee shall notify the Southeast Regional Office of MassDEP, Compliance & Enforcement Chief by telephone 508-946-2817, email, sero.air@state.ma.us or fax 508-947-6557, as soon as possible, but no later than three (3) business days after discovery of an exceedance(s) of Tables 2 requirements. A written report shall be submitted to Compliance & Enforcement Chief at MassDEP within ten (10) business days thereafter and shall include: identification of exceedance(s), duration of exceedance(s), reason for the exceedance(s), corrective actions taken, and action plan to prevent future exceedance(s).
	8. The Permittee shall report to MassDEP, in accordance with 310 CMR 7.12, all information as required by the Source Registration/Emission Statement Form. The Permittee shall note therein any minor changes (under 310 CMR 7.02(2)(e), 7.03, 7.26, etc.), which did not require Plan Approval.

Table 5 Key:

AQ = Air Quality
BAW = Bureau of Air and Waste
CMR = Code of Massachusetts Regulations
CO = Carbon Monoxide
EU = Emission Unit
NH₃ = Ammonia
NO_x = Nitrogen Oxides

PM = Total Particulate Matter
PM₁₀ = Particulate Matter less than or equal to 10 microns in diameter
PM_{2.5} = Particulate Matter less than or equal to 2.5 microns in diameter
SERO = Southeast Regional Office

4. SPECIAL TERMS AND CONDITIONS

- A. The Permittee is subject to, and shall comply with, the Special Terms and Conditions as contained in Table 6 below:

Table 6	
EU	Special Terms and Conditions
EU1-EU4	1. The Permittee has indicated that the proposed Reciprocating Internal Combustion Engine are subject to 40 CFR 60 Subpart IIII – <u>Standards of Performance for Stationary Compression Ignition Internal Combustion Engines</u> and 40 CFR 63 Subpart ZZZZ – <u>National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines</u> . Since MassDEP has not accepted delegation for Subparts IIII or ZZZZ, you are advised to consult with the United States Environmental Protection Agency (USEPA) for additional information regarding applicable requirements that may apply to your facility. EPA’s address is: US EPA Region 1, 5 Post Office Square – Suite 100, Boston, MA 02109-3912, attn: Susan Lancey.
	2. The Permittee has submitted Air Quality Dispersion modeling reflecting the operation of all four engines concurrently. The operation of any single engine shall count toward the 500 hour combined operational limit in Table 2.
Facility-wide	3. Sound impacts shall not exceed 10 dB(A) above background and shall not cause a pure tone condition as defined in the Division of Air Quality Control Noise Policy No. 90-001.
	4. This Amended Air Quality Plan Approval letter supersedes the Amended Air Quality Plan Approval letter issued for Application No. SE-15-001 on May 20, 2015.

Table 6 Key:

CFR = Code of Federal Regulations

dB(A) = decibels weighted for the “A” scale

EU = Emission Unit

USEPA = United States Environmental Protection Agency

- B. The Permittee shall install and use an exhaust stack, as required in Table 7, on each of the Emission Units that is consistent with good air pollution control engineering practice and that discharges so as to not cause or contribute to a condition of air pollution. Each exhaust stack shall be configured to discharge the gases vertically and shall not be equipped with any part or device that restricts the vertical exhaust flow of the emitted gases, including, but not limited to, rain protection devices known as “shanty caps” and “egg beaters.”
- C. The Permittee shall install and utilize exhaust stacks with the following parameters, as contained in Table 7, for the Emission Units that are regulated by this Plan Approval:

Table 7				
EU	Stack Height Above Ground (feet)	Stack Inside Exit Dimensions (feet)	Stack Gas Exit Velocity Range (feet per second)	Stack Gas Exit Temperature Range (°F)
1	40	2.5	58.7	800

Table 7				
EU	Stack Height Above Ground (feet)	Stack Inside Exit Dimensions (feet)	Stack Gas Exit Velocity Range (feet per second)	Stack Gas Exit Temperature Range (°F)
2	40	2.5	58.7	800
3	40	2.5	58.7	800
4	40	2.5	58.7	800

Table 7 Key:
°F = degrees Fahrenheit
EU = Emission Unit

5. GENERAL CONDITIONS

The Permittee is subject to, and shall comply with, the following general conditions:

- A. Pursuant to 310 CMR 7.01, 7.02, 7.09 and 7.10, should any nuisance condition(s), including but not limited to smoke, dust, odor or noise, occur as the result of the operation of the Facility, then the Permittee shall immediately take appropriate steps including shutdown, if necessary, to abate said nuisance condition(s).
- B. If asbestos remediation/removal will occur as a result of the approved construction, reconstruction, or alteration of this Facility, the Permittee shall ensure that all removal/remediation of asbestos shall be done in accordance with 310 CMR 7.15 in its entirety and 310 CMR 4.00.
- C. If construction or demolition of an industrial, commercial or institutional building will occur as a result of the approved construction, reconstruction, or alteration of this Facility, the Permittee shall ensure that said construction or demolition shall be done in accordance with 310 CMR 7.09(2) and 310 CMR 4.00.
- D. Pursuant to 310 CMR 7.01(2)(b) and 7.02(7)(b), the Permittee shall allow MassDEP and / or USEPA personnel access to the Facility, buildings, and all pertinent records for the purpose of making inspections and surveys, collecting samples, obtaining data, and reviewing records.
- E. This Plan Approval does not negate the responsibility of the Permittee to comply with any other applicable Federal, State, or local regulations now or in the future.
- F. Should there be any differences between the Application and this Plan Approval, the Plan Approval shall govern.
- G. Pursuant to 310 CMR 7.02(3)(k), MassDEP may revoke this Plan Approval if the construction work is not commenced within two years from the date of issuance of this Plan Approval, or if the construction work is suspended for one year or more.

- H. This Plan Approval may be suspended, modified, or revoked by MassDEP if MassDEP determines that any condition or part of this Plan Approval is being violated.
- I. This Plan Approval may be modified or amended when in the opinion of MassDEP such is necessary or appropriate to clarify the Plan Approval conditions or after consideration of a written request by the Permittee to amend the Plan Approval conditions.
- J. Pursuant to 310 CMR 7.01(3) and 7.02(3)(f), the Permittee shall comply with all conditions contained in this Plan Approval. Should there be any differences between provisions contained in the General Conditions and provisions contained elsewhere in the Plan Approval, the latter shall govern.

6. MASSACHUSETTS ENVIRONMENTAL POLICY ACT

MassDEP has determined that the filing of an Environmental Notification Form (ENF) with the Secretary of Energy & Environmental Affairs, for air quality control purposes, was not required prior to this action by MassDEP. Notwithstanding this determination, the Massachusetts Environmental Policy Act (MEPA) and 301 CMR 11.00, Section 11.04, provide certain “Fail-Safe Provisions,” which allow the Secretary to require the filing of an ENF and/or an Environmental Impact Report (EIR) at a later time.

7. APPEAL PROCESS

This Plan Approval is an action of MassDEP. If you are aggrieved by this action, you may request an adjudicatory hearing. A request for a hearing must be made in writing and postmarked within twenty-one (21) days of the date of issuance of this Plan Approval.

Under 310 CMR 1.01(6)(b), the request must state clearly and concisely the facts, which are the grounds for the request, and the relief sought. Additionally, the request must state why the Plan Approval is not consistent with applicable laws and regulations.

The hearing request along with a valid check payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100.00) must be mailed to:

Commonwealth of Massachusetts
Department of Environmental Protection
P.O. Box 4062
Boston, MA 02211

This request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a waiver as described below. The filing fee is not required if the appellant is a city or town (or municipal agency), county, or district of the Commonwealth of Massachusetts, or a municipal housing authority.

MassDEP may waive the adjudicatory hearing-filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.

Enclosed is a stamped approved copy of the application submittal.

Should you have any questions concerning this Plan Approval, please contact Peter Russell by telephone at (508) 946-2821, or in writing at the letterhead address.

Sincerely,

This final document copy is being provided to you electronically by the Department of Environmental Protection. A signed copy of this document is on file at the DEP office listed on the letterhead.

Thomas Cushing
Permit Chief
Bureau of Air and Waste

Enclosure

ecc: Taunton Board of Health
Taunton Fire Department
Mark Medeiros, TMLP
Dale Raczinski, Epsilon Associates
MassDEP/Boston – Yi Tian
MassDEP/SERO – Maria Pinaud, Lisa Ramos, Peter Russell